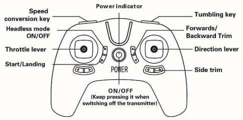
14+
AGES

Instruction Manual of 522 Quad-rotor

Important

Important! Before you begin, please read the Safety Warnings listed below. Failure to comply with the following recommendations could lead to injuries. The RC aircraft is not intended for those under 14 years of age without proper adult supervision.

Chart indicating each key function on the transmitter



List of product configuration and parameters:

Configuration list:Aircraft x 1, remote control x 1, 3.7V lithium battery x 1, specification x 1,USB charger x 1, attached propeller x 1 sets, screwdriver X1, screw X5.	
Aircraft battery: 3.7V550mA lithium batteries	Remote control radius: about 50M
The remote control battery: 4 grain of 1.5 v "AAA" battery (Not included.)	The flying time:about 6 minutes
Aircraft size: Length 234mm * Width 234mm * High60mm	Aircraft weight:120g

⚠ Warning:

*Please follow the instruction or packing instructions for proper installation and use. Some parts are assembled by the adult.

*The product contains small parts, eating or possible choking hazard

*Please put away the packing material in time, so as not to cause harm to children.

*Need to regularly check the charger, wire, plug, shell and other components, found that damage, should stop using, until the repair.

*The charger, the battery pack, and the charging device must be inserted in the same power as the product labeling.

*Can only use the original configuration of the charger, the charger is not a toy.

*Clean toys should be disconnected from the charger.

*Non rechargeable battery.

*When charging the rechargeable battery, the need for adult guardianship.

*Do not mix old and new batteries or batteries of different types, the exhaustion of the battery should be promptly removed.

*Do not short-circuit the battery, break down, or fall into the fire.

* Long time does not control the product, please take out the battery.

*Do not touch the rotating parts, to avoid causing harm to the body

*Please do not serious impact or drop aircraft and remote control. Clean the product with a clean, soft cloth.

* Users are responsible for ensuring that the product will not cause damage toitself or others, and that the

* manufacturer or distributor does nottake any responsibility for the operationof the damage caused by improperoperation of their own or otherpeople's safety.

Battery loading of the transmitter:

1. As the right picture shown, remove the battery cover of the transmitter. As the polarity shown in the battery compartment, please correctly load 4PCS "AAA" batteries (not included). Then please load the battery cover and tightly screw it.

⚠ 2. Caution:
a. When loading the battery, please make sure correct the polarity of the battery and battery compartment. Please DO NOT load the batteries upside down.
b. Please DO NOT mix the old batteries with the new ones or batteries of different types.

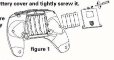
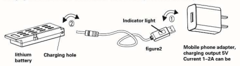


figure 1

Charging Instruction of the lithium battery

(Please remove the batteries from the aircraft before charging.)

1. Insert the USB charger line into the USB port,of the working computer, this time the USB indicator will be ON.
2. The charging plug of the USB charger is correctly inserted into the lithium battery charging hole, this time the USB indicator will show eternal bright "OFF", which represents it is under charging.
3. Charging it for about 60 minutes, the USB indicator will be ON, which represents the charging is finished. Please disconnect all the links and place it on the safe position.


②
①
Indicator light
lithium battery
Charging hole
Mobile phone adapter, charging output 5V Current 1-2A can be
figure2

Related matters needing attention in the use of lithium batteries:

A, charging, the staff do not leave and charging time is not too long, charging process found the battery, please stop charging, avoid battery damage or fire, etc..

B, do not put the battery in the inflammable and explosive goods next to charge, when the battery in the use or charging process, once the smell or battery suddenly become hot, deformation, discoloration and other abnormal phenomenon, please stop using the battery.

C, if the battery leaks, avoid contact with skin and eyes. If contact with skin and eyes, rinse immediately with plenty of cold water and immediately seek medical attention.

D, can only use the original charger to charge the product to the product, and determine the charger voltage to meet your local standards.

E, do not put the battery into the fire, microwave or pressure tank.

F, please do not use solvents, industrial alcohol or other flammable solvents to

G, products include plastic, electronic components and battery components, please do not use such items as daily garbage disposal, please according to the local garbage collection requirements, the classification process.

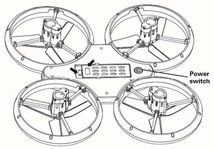
Preparation before operating the aircraft.

Battery installation and disassembly:

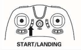
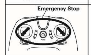
Battery installation method: load the battery into the battery slot at the corresponding position.

Note: check the battery box in place, then press the power switch

Battery disassembly methods: according to the figure to buckle down to the battery box is pushed forward.

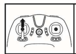
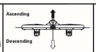
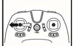
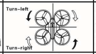
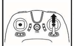
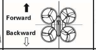
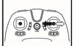
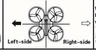


Aircraft starting / landing control method:

	**A:START/LANDING** 1. Press the "START/LANDING" key to switch on the aircraft, this time the motor of the aircraft will be running in slow speed. Push upward the throttle lever, the aircraft will take off. 2. During the process of flying, press the "START/LANDING" key, the aircraft will be descending in slow speed until stop flying and landing on the ground.
	**B:Emergency Stop:** During the flying process, in case that the aircraft is fallen off by accident or meeting the danger, please press the Emergency Stop key, this time the aircraft will stop working quickly.

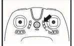
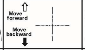
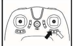
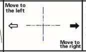
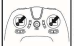
Tips on Height Setting: Push upward the throttle lever and the aircraft will be ascending to the assigned height . Then please loosen the throttle lever and the aircraft will be flying steadily as per this height.

Normal control method of aircraft

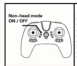
		When pushing the throttle lever upward, the aircraft will be ascending; When the throttle lever is pushed down, the aircraft drops;
		When pushing the throttle lever to the left, the aircraft will be turning left. When the throttle lever is pushed to the right, the aircraft turn right.
		When pushing the direction lever upward, the aircraft will be advancing forward. When the direction of the lever back to pull down the aircraft.
		When pushing the direction lever to the left, the aircraft will be flying to the left side. When the direction of the joystick to the right, aircraft fly on the right side.

Trimming & Calibration of the Quad-rotor:

Push slowly the throttle lever. When the aircraft ascending till about 1.5 meters, if the aircraft make spinning in the air or titling toward different direction, you can use Trimmer to correct the action.

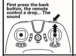
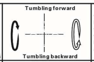
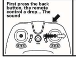
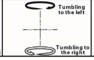
		When deviating toward forward, please trim it to the back until it is well repaired. when trimming to before adjustment, until repaired
		When deviating to the left, please trim it to the right until it is well repaired. The bias to the right, fine-tuning adjustments to the left, until the repair.
	If the Quad-rotor can not ascend vertically when taking off, please make calibration to the Quad-rotor. In the meantime, please pull the throttle lever and direction lever to the down left corner. This time the indicator of the Quad-rotor will be quickly flashing, then please release all the actions of the transmitter. Wait until the indicator keeps eternal bright "ON" and the calibration is finished.	

Operating method of the non-head mode of the Quad-rotor:

	1、Firstly, please kindly confirm the Forward Direction before entering into the non-head mode. Press the key of the non-head mode, the transmitter will keep sending out sound of "di di, di di…" intermittently, this time it enters into the non-head mode. Regardless of the Quad-rotor rotating to either direction, its flying direction will be following the direction when it is decoded. 2、If you need to exit the non-head mode, please press the key of non-head mode to exit. When hearing one sound of "di" sending out from the transmitter, it represents it has entered into the ordinary mode.

Tips: The forwarding direction under the non-head mode is the forward direction when the decoding or calibrating is made. When entering into the non-head mode, the Quad-rotor can rotate to either direction, its forward direction still be following the forward direction when the decoding or calibrating is made.

Aircraft rolling operation method

First press the back button, the remote control a drop... The sound 		When pushing the direction lever upward, the aircraft will be tumbling forward. When the direction of the lever is pulled down, the aircraft turn.
First press the back button, the remote control a drop... The sound 		When the direction of the joystick to the left, the aircraft left turn When the direction of the joystick to the right, aircraft right turn.

Problem Solving Guidelines:

Question	Reason	Treatment
Powered, can not control	1, Remote control and aircraft power supply bad	1, check and in accordance with the battery installation instructions to install Fully charged battery, and the code.
	2, the remote control and aircraft to code without success	2, according to the front of the code description, re code
Aircraft severe shock	1, the rotor deformation	1, the replacement of the new corresponding rotor
	2, hollow shaft bending	2, the replacement of the new hollow shaft
Aircraft from total flying to one side	1, the rotor deformation	1, the replacement of the new rotor
	2, there is a motor damage	2, the replacement of the new corresponding motor
	3, the code, the aircraft is not flat	3, the aircraft on the horizontal plane, the re code
Out of control	1, beyond effective remote control distance	1, please ensure that the radius of 100 meters control
	2, the code, there are a number of aircraft at the same timeOpen the power supply	2, please re code (multi aircraft to the code, the need to code one by one, to avoid the right or wrong or not)
Aircraft cannot rise	1, the rotor rotating speed is too slow	1, will throttle control lever slowly push up
	2, aircraft battery shortage	2, replace the full battery or battery full of power Re control
Aircraft landing too fast	Quickly back to the throttle lever	Let the aircraft fall, please slowly pull back the throttle control lever

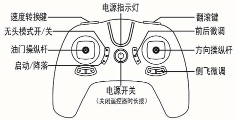
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on,
the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

适合年龄14+

522四轴飞行器使用说明书

重要提示：
为了您更容易、更熟练、更安全的操作此飞行器，请您仔细阅读完此说明书，同时请您妥善保管这本说明书，以便日后参考。

遥控器按键功能示意：



产品配置清单及参数说明：

配置清单：飞行器×1，遥控器×1，3.7V锂电池×1，说明书×1，USB充电器×1，附送风叶×1套，螺丝刀X1，螺丝X5。	
飞行器电池：3.7V 550mA锂电池	遥控半径：50米左右
遥控器电池：4 粒1.5V，"AAA"电池（需另购）	飞行时间：6分钟左右
飞行器尺寸：长234mm* 宽234mm * 高60mm	飞行器重量：120克

⚠警告：

* 请遵照说明书或包装说明要求正确安装和使用，部分零件由成人组装。
* 产品含有小零件，可能产生误食或窒息危险。
* 请及时将包装材料收起，以免对儿童造成伤害。
* 需定期检查充电器、电线、插头、外壳和其它部件，发现有损坏时，应停止使用，直至修复完好。
* 充电器、电池盒等充电装置需插入与产品标示相同的指定电源中。
* 只能使用原厂配置的充电器，充电器不是玩具。
* 清洁玩具前应当与充电器断开。
* 非充电电池不可充电。
* 给充电电池充电时，需成人监护。
* 不可混用新旧电池或不同类型的电池，用尽的电池应及时取出。
* 切勿将电池短路、分解、高空跌落或投入火中。
* 长时间不操控产品，请取出电池。
* 请勿用手触摸转动部件，避免对人身造成伤害。
* 请勿严重撞击或跌落飞行器和遥控器。
* 请用干净柔软的布清洁此产品。
* 使用者有责任确保产品不会对自身或他人造成伤害，因操作不当对自身或他人安全造成伤害和财产造成损失，制造商和经销商不承担任何责任。
* 本包装及说明书含有产品重要信息，请予以保留。

遥控器电池安装：

如右图1所示，拆下遥控器电池盖，依照电池箱内的电池极性正确装上4粒"AAA"电池（另购），再装上电池盖，拧紧螺丝。

⚠注意：
a、装电池时，必须认准电池正负极与电池盒正负极，切不能装反。
b、请勿混合使用新旧电池或混合使用不同类型的电池。

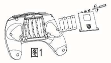


图1

锂电池充电说明

（充电前需将电池取出）：如图2所示

① 将USB充电器插入已打开电脑的USB接口，此时USB指示灯亮起。
② 将电池插头与USB充电连接线正确连接，此时USB指示灯熄灭。
③ 充电约60分钟，USB指示灯亮起，表明充电完成，请断开所有连接并放于安全位置，关闭电脑。

(每充满一次电，可操控5分钟左右)。

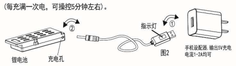


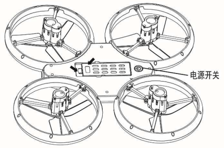
图2

锂电池使用的相关注意事项：

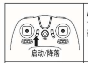
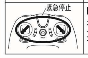
a、充电时，人员切勿离开并充电时间不易过长，充电过程中发现电池发烫，请立即停止充电，避免电池损坏或起火等。
b、切勿把电池放在易燃易爆物品旁边充电，当电池在使用或充电过程中一旦出现异味或电池骤然变热、变形、变色及其它异常现象，请立刻停止使用该电池。
c、如果电池发生泄漏，请避免液体与皮肤、眼睛接触。若接触到皮肤和眼睛，请立即用大量冷水冲洗并立刻就医。
d、只能使用原厂配置的充电器给产品充电，并确定充电器的电压符合您当地的标准。
e、请勿将电池放入火中、微波炉或压力罐中。
f、请勿使用溶剂、工业酒精或其他易燃溶剂对产品及充电器进行清洁。
g、产品包含塑胶、电子元器件及电池组成，请勿将此类物品当作日常垃圾处理，请按照当地垃圾回收要求，进行分类处理。

飞行器操作前准备：

电池安装及拆装：
电池安装方法：将电池按照对应位置装入电池槽内。
注意：检查电池盒是否装到位，再按电源开关
电池拆装方法：按图所示先将扣位向下按，把电池盒向前推。

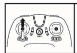
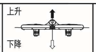
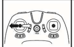
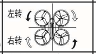
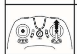
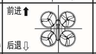
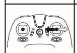
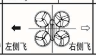


飞行器启动/降落操控方法：

	**A：启动/降落：** 1、按一下"启动/降落"键启动飞行器，此时飞行器马达将慢速运转，向上推油门推杆，飞行器起飞。 2、在飞行过程中按一下"启动/降落"键，飞行器将慢速下降至地面后停止飞行。
	**B：紧急停止：** 在飞行过程中意外跌落或遇到危险情况时请按图示方法同时将油门推杆打到左下角和方向推杆打到右下角启动紧急停止，此时飞行器将快速停止工作。

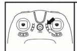
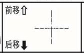
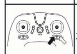
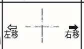
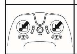
定高提示：向上推油门让飞行器上升至指定高度时松开油门推杆，飞行器将按此高度稳定飞行。

飞行器的正常操控方法：

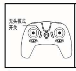
		当油门操纵杆向上推，飞行器上升； 当油门操纵杆向下拉，飞行器下降。
		当油门操纵杆向左推，飞行器左转； 当油门操纵杆向右推，飞行器右转。
		当方向操纵杆向上推，飞行器前进； 当方向操纵杆向下拉，飞行器后退。
		当方向操纵杆向左推，飞行器左侧飞； 当方向操纵杆向右推，飞行器右侧飞。

飞行器的动作微调及校正说明：

慢慢推动油门操纵杆，当飞行器升空至1.5米左右时，若飞行器在空中倾向不同方向，可使用微调修正动作。

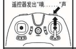
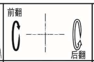
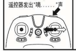
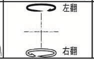
		向前偏移时，微调向后调整，直到修复。 向后偏移时，微调向前调整，直到修复。
		向左偏移时，微调向右调整，直到修复。 向右偏移时，微调向左调整，直到修复。
	若飞行器起飞时不能垂直上升，可对飞行器进行校正：同时将油门操纵杆和方向操纵杆打到左下角，此时飞行器指示灯快速闪烁后松开遥控器全部动作，待指示灯长亮，校正完成。	

飞行器无头模式操作方法：

	1、在进入无头模式前请确认对码时的前进方向，按一下无头模式开按键，遥控器将一直间歇式"嘀嘀...嘀嘀..."声响，此时进入无头模式，飞行器无论旋转至任何方向，其飞行方向都将按对码时的方向飞行。 2、要退出无头模式，请在按一下无头模式开关按键，遥控器"嘀"一声响后即退出且进入普通模式。

提示：飞行器进入无头模式的前进方向为对码时或校正后的前进方向进入无头模式后，飞行器旋转至任意方向，其前进方向都将按对码或校正的前进方向飞行。

飞行器的翻滚操控方法：

先按一下翻滚键，遥控器发出"嘀......"声 		然后当方向操纵杆向上推，飞行器前翻； 当方向操纵杆向下拉，飞行器后翻。
先按一下翻滚键，遥控器发出"嘀......"声 		然后当方向操纵杆向左推，飞行器左翻； 当方向操纵杆向右推，飞行器右翻。

问题解决指引：

问题	原因	处理方法
通电后，不能操控	1、遥控器与飞行器电源供电不良	1、检查并依照电池安装说明重新安装电量充足的电池，并重新对码操控。
	2、遥控器与飞行器对码未成功	2、依据前面对码说明，重新对码
飞行器起飞总偏向一边	1、旋翼变形	1、更换全新旋翼
	2、有一个电机损坏	2、更换全新的对应电机
	3、对码时，飞行器未放平	3、把飞行器放在水平面上，重新对码
失控	1、超出有效遥控距离	1、请确保在半径100 米以内操控
	2、对码时，有多部飞行器同时打开电源	2、请重新对码（多部飞行器对码时，需逐个对码，避免对错或对不上）
飞行器不能升高	1、旋翼转动速度太慢	1、将油门操纵杆慢慢往上推
	2、飞行器电池电量不足	2、更换充满的电池或给电池充满电后再操控
飞行器着地太快	太快拉回油门操纵杆	让飞行器下降时，请慢慢拉回油门操纵杆